

AMENDMENTS TO THE CLAIMS

1. (currently amended) A process ~~Process~~ for attaching a label jacket to objects, such as bottles or similar items, comprising: ~~the steps of~~

seizing a label jacket by a separating jaw unit by its forward margin for pulling in an axial direction over an object,

holding the object with a holding device, prior to the pull-over application by the area of its mantle surface, by positive or friction lock,

continuously transporting the object along a path at a constant level, at least during the pull-over application of the label jacket,

initiating the pull-over process,

controlling the holding device of the object during the pull-over application of the label jacket as a function of the transport movement of the object along the path,

temporarily releasing the holding device on the mantle surface as soon as the separating jaw unit at least partially surrounds the object over its mantle surface, ~~and, at the latest when the desired adhesion height of the label jacket on the object has been reached,~~

seizing the latter object by the area of its mantle surface, which is now covered with the label, at the latest when the desired adhesion height of the label jacket on the object has been reached, and thereby affixing the label in a manner so it cannot slip, and

pulling off the separating jaw unit.

2. (previously presented) Process according to Claim 1, and causing the hold on the mantle surface of the object to occur at a certain height position, first with positive or friction lock, briefly releasing the holding device as soon as the forward margin of the label jacket approaches this height position with simultaneous axial support of the object, and holding the object, after the passage of the height position, in such a manner that the label jacket can then continue to be pulled over axially with respect to the object until the adhesion height is reached.

3. (previously presented) Process according to Claim 1 or 2, and causing the hold of the object to occur at two places of its mantle surface with separation intervals in the axial direction, and alternately controlling the two axially displaced holding devices to rise, during

the pull-over application of the label jacket, in such a manner that the object is at all times subject to or guided by at least one holding device.

4. (currently amended) Process according to Claim 1 or Claim 2, and controlling the holding device of the object, during the axial pull-over application of the label jacket, as a function of the operating movement of the spreading jaw unit ~~or of the transport movement of the object.~~

5. (previously presented) Process according to Claim 1 or 2, wherein the label jacket consists of a stretchable film hose material with smaller internal diameter than the external diameter of the object, and the further steps of, before the pulling over, elastically extending the stretchable film hose material at least at its forward margin advancing in the axial direction, by the spreading jaw to a value in excess of the external diameter, and releasing the elastic extension of the stretchable film hose material after the adhesion height has been reached.

6. (previously presented) Process according to Claim 1, wherein the label jacket consists of a film hose material which is shrinkable when exposed to heat, which has an internal diameter which is equal to or larger than the external diameter of the object, and the further step of, after the adhesion height has been reached, at least partially shrink wrapping the film hose material on the object, before the holding device of the label jacket and of the object is released.

7. (previously presented) Process according to Claim 6, wherein, after releasing the holding device, a complete shrink wrapping occurs.

8. (canceled).

9. (currently amended) Device for the attachment of a label jacket (E) to objects (F), such as bottles or similar items, comprising in combination:

at least one spreading jaw unit (50) for seizing the label jacket at its forward margin and axial pull-over application of the label jacket by means of the spreading jaw unit onto an object, and

at least one controllable holding device (20) for seizing the object (F), with positive or friction lock, in the area of its mantle surface,

a continuously drivable conveyor (3) for transporting the object (F) associated with the at least one spreading jaw unit (50) and the at least one holding device (20) at a constant level, at least during the pull-over application, and

a controllable actuation device (21-26) associated with the holding device (20) that actuates the holding device (20) as a function of the transport direction of the object (F), at least during the pull-over application.

10. (canceled).

11. (previously presented) Device according to Claim 9, wherein said holding device (20) seizes, after the pull-over application of the label jacket (E), the area of the mantle surface of the object (F) that has been covered.

12. (previously presented) Device according to Claim 9, wherein said holding device (20) is constructed in the form of a clamp having two arms (20a, 20b) which can be moved in opposite directions.

13. (previously presented) Device according to Claim 12, wherein said arms (20a, 20b) are appropriately adapted in their shape to the external contour of the object (F), matching the area that is seized.

14. (currently amended) Device according to Claim 12, wherein said clamp (20) is associated, as a function of the direction of movement of the spreading jaw unit (50) ~~or of the transport direction of the object (F)~~, with a the controllable actuation device (21-26).

15. (previously presented) Device according to Claim 14, wherein said clamp (20) can be moved from a release position to a seize position, and vice versa.

16. (previously presented) Device according to Claim 15, wherein said actuation device (21-26) is constructed to have two different seize positions, where, in a first seize position between the object (F) and the clamp (20), a slit remains for pulling the label jacket (E) through, and in the second seize position, said clamp (20) is applied, without tolerance, with a defined force of application, to the object (F) or the label jacket (E).

17. (previously presented) Device according to Claim 12, wherein each said arm (20a, 20b) of said clamp (20) is secured to its own shaft (19a, 19b), which is vertical with respect to the plane of transport, and these said shafts (19a, 19b) are separated from each other by an interval, which allows the free penetration of said spreading jaw unit (50).

18. (previously presented) Device according to Claim 17, wherein said spreading jaw unit (50) is secured vertically with respect to the plane of transport of the objects (F), in such manner that said spreading jaw unit can be moved alternately in opposite directions by means of a reversible double-action cylinder (34), and the operating movements are controlled, at least during some periods, by at least one radial cam (40, 41, 41b).

19. (previously presented) Device according to Claim 17, wherein said conveyor (3) is a carousel-like revolving table, which can be rotated about a vertical axis (30'), with several placement surfaces (4), which are evenly separated, for the objects (F), and each said placement surface is associated with a liftable and lowerable said spreading jaw unit (50) and a said clamp (20), where a vertical guide (32), which takes up said spreading jaw unit (50), and said arms (20a, 20b) of said clamp (20) bearing shafts (19a, 19b) are arranged on the radially internal side of the circumferential path of said placement surfaces (4).

20. (previously presented) Device according to Claim 19, wherein said placement surfaces (4) are associated with controlled liftable and lowerable centering elements (14).

21. (previously presented) Device according to Claim 19, wherein said revolving table (3) is associated with a feed star wheel (5) and a delivery star wheel (6) with controllable grip elements to feed and deliver the objects (F), and said spreading jaw units (50) are raised, in the circumferential area from said delivery star wheel to said feed star wheel, from a bottom dead center position into the direction of a top dead center position.

22. (previously presented) Device according to Claim 9, wherein said spreading jaw unit (50) is constructed in the form of a nipper having two internal jaws (51a, 51b), which can be swiveled horizontally in opposite directions in a controlled manner and an application surface (53) for the forward margin of a label jacket (E), and two counter arms (52a, 52b), which are associated with said internal jaws and which can be swiveled in opposite directions either towards each other or towards said internal jaws, and where said internal jaws can be brought in contact with friction lock with the internal side, and said counter arms with the external side, of a label jacket.

23. (previously presented) Device according to Claim 22, wherein said spreading jaw unit (50) can be actuated by means of control elements (70) which are secured to the circumferential path of said spreading jaw units, and further said spreading jaw unit (50) can be moved by a peripheral cam (68) that can be swiveled, as desired, from a ready position into the spread position or vice versa.

24. (previously presented) Device according to Claim 19, wherein two said revolving tables (3, 3') are connected in parallel and are supplied with a common, one-track feeding stream of objects, which is divided over said two revolving tables and which is again combined, behind said revolving tables, to a one-track row.

25. (previously presented) Process according to Claim 8, wherein the object is continuously transported in a circular path.

26. (previously presented) Device according to Claim 10, wherein said at least one spreading jaw unit (50) and said at least one holding device (20) are moved synchronously with said object (F) by said drivable conveyor (3).

27. (previously presented) Device according to claim 11, wherein the holding device (20) seizes said mantle surface area in the middle section of the object (F) having the largest external diameter.

28. (previously presented) Device according to Claim 13, wherein said arms have a non-slip surface.

29. (previously presented) Device according to Claim 15, wherein in the seize position said clamp is automatically controlled, and in the release position said clamp is controlled by said actuation device (21-26).

30. (previously presented) Device according to Claim 20, wherein said liftable and lowerable centering elements are ring members.

31. (previously presented) Device according to Claim 19, wherein the top side of said placement surface is shaped to the contour of the standing surface of the objects (F).

32. (New) A process for attaching a label jacket to objects, such as bottles or similar items, comprising:

seizing a label jacket by a separating jaw unit by its forward margin for pulling in an axial direction over an object,

holding the object with a holding device, prior to the pull-over application by the area of its mantle surface, by positive or friction lock,

initiating the pull-over process,

temporarily releasing the holding device on the mantle surface as soon as the separating jaw unit at least partially surrounds the object over its mantle surface,

seizing the latter object by the area of its mantle surface, which is now covered with the label, at the latest when the desired adhesion height of the label jacket on the object has been reached, and thereby affixing the label in a manner so it cannot slip,

pulling off the separating jaw unit,

and causing the hold of the object to occur at two places of its mantle surface with separation intervals in the axial direction, and alternately controlling the two axially displaced holding devices to rise, during the pull-over application of the label jacket, in such a manner that the object is at all times subject to or guided by at least one holding device.

33. (New) A process for attaching a label jacket to objects, such as bottles or similar items, comprising:

seizing a label jacket by a separating jaw unit by its forward margin for pulling in an axial direction over an object,

holding the object with a holding device, prior to the pull-over application by the area of its mantle surface, by positive or friction lock,

initiating the pull-over process,

temporarily releasing the holding device on the mantle surface as soon as the separating jaw unit at least partially surrounds the object over its mantle surface,

seizing the latter object by the area of its mantle surface, which is now covered with the label, at the latest when the desired adhesion height of the label jacket on the object has been reached, and thereby affixing the label in a manner so it cannot slip,

pulling off the separating jaw unit,

wherein the label jacket consists of a film hose material which is shrinkable when exposed to heat, which has an internal diameter which is equal to or larger than the external diameter of the object, and the further step of, after the adhesion height has been reached, at least partially shrink wrapping the film hose material on the object, before the holding device of the label jacket and of the object is released.

34. (New) Device for the attachment of a label jacket (E) to objects (F), such as bottles or similar items, comprising in combination:

at least one spreading jaw unit (50) for seizing the label jacket at its forward margin and axial pull-over application of the label jacket by means of the spreading jaw unit onto an object,

at least one controllable holding device (20) for seizing the object (F), with positive or friction lock, in the area of its mantle surface,

wherein said spreading jaw unit (50) is constructed in the form of a nipper having two internal jaws (51a, 51b), which can be swiveled horizontally in opposite directions in a controlled manner and an application surface (53) for the forward margin of a label jacket (E), and two counter arms (52a, 52b), which are associated with said internal jaws and which can be swiveled in opposite directions either towards each other or towards said internal jaws, and where said internal jaws can be brought in contact with friction lock with the internal side, and said counter arms with the external side, of a label jacket.